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|---|-------------|----------------------|--------------------------|------------------|
| 09/707,923  | 11/08/2000  | Richard M. Bentley   | D/99628                  | 9614             |
| 7590 12/03/2004   |             |                      |                          |                  |
| John E Beck<br>Xerox Corporation<br>Xerox Square 20A<br>Rochester, NY 14644 |             |                      | EXAMINER<br>TRAN, QUOC A |                  |
|   |             |                      | ART UNIT<br>2176         | PAPER NUMBER     |

DATE MAILED: 12/03/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

## Office Action Summary

Application No.

09/707,923

Applicant(s)

BENTLEY ET AL.

Examiner

Quoc A. Tran

Art Unit

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 06 July 2004.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-24 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-24 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
  - ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- |  |   |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892)   | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                   | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)             |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____  |

### **DETAILED ACTION**

1. This action is responsive to Amendment A, filed 07/06/2004.
2. Claims 1-8, 10-18, and 21-21-28 are currently pending in this application.  
Claims 1, 4, 2, and 14 are independent claims, cancels claims 9, and 19-20, adds claims 21-28.

#### ***Claim Rejections - 35 USC § 101***

3. The rejection of claims 12-18 under of 35 U.S.C. 101 has been withdrawn since correction made.

#### ***Claim Rejections - 35 USC § 103***

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

5. **Claims 1-28 are rejected under 35 U.S.C. 103(a) as being as being unpatentable over Reich et al. US005960448A - filed 12/15/1995 (hereinafter '448), in view of McIn et al. US006130968A - filed 10/03/1997 (hereinafter '968).**

*In regard to independent claim 12, "generating a first display region in the display image in which words are represented ... ; generating a thumbnail view in the display image of the section of text from which the words in the first region are being*

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*read*", however as taught by '448 at col. 2, lines 1-10 (.... displaying information in a computer system... including a plurality of document images, a plurality of text files, and a plurality of positions files. A first text file of the plurality of text files representing optical character recognized text of a corresponding first document image of the plurality of document images. A first positions file of the plurality of positions files for relating character information in the first text file to a position in the first document image... Accessing the first positions file to determine a first region in the first document image corresponding to the first matching text string. Displaying the first document image including displaying a first enhanced view of the first region, the first enhanced view being enhanced relative to a display of the first document image...);

*"and moving in the display image the thumbnail view relative to the first region to indicate at least an approximate location within the thumbnail view of the word currently being displayed in the first display region"*, as taught by '448 at col. 14, lines 5-20 (....visual enhancements can be added such as a transparency, a color, a border effect and an edge effect ... The blow-up allows the audience to more easily see the identified region of interest 600...);

*"and moving in the display image the thumbnail view relative to the first region to indicate at least an approximate location within the thumbnail view of the word currently being displayed in the first display region"*, as taught by '448 at col. 14, lines 5-20 (....visual enhancements can be added such as a transparency, a color, a border effect and an edge effect ... The blow-up allows the audience to more easily see the identified region of interest 600...).

'448 does not explicitly teach, "*words are presented sequentially one after another in time*", however as taught by '968 col. 3, lines 45-60 (i.e...a rapid and sequential display of words in a text, one word at a time...).

It would have been obvious to a person of ordinary skill in the art at the time the invention was made to have modified '968 into '448 to provide a way, wherein generating a thumbnail view in the display image of the section of text from which the words in the first region are being read and moving in the display image the thumbnail view relative to the first region to indicate at least an approximate location within the thumbnail view of the word currently being displayed in the first display region. One of the ordinary skills in the art would have been motivated to perform such a modification to provide the enhancement of the readability of text have, in large measure of rapidly displayed text by a subject, and improved reading apprehension, and which is greater than the maximum aided reading capability of a subject, as taught by '968 at col. 2, lines 43-47 (i.e... the readability of rapidly displayed text by a subject, and with an improved reading apprehension...), and more over to provide the easier, faster, and less expensive tools, to perform variety of tasks, such as: the creation optical character recognition, corresponding electronic text file/word or character cannot be recognized, as taught by '448 at col. 1, lines 30-65 (i.e... Tools should be included that make the creation of a presentation easier, faster, and less expensive).

**In regard to dependent claim 13**, "*wherein the sequence of words presented in the first display region is advanced at a controlled presentation rate*" is taught in '968 col. 3, lines 45-60 (i.e. sequentially and one word at a time. Thus, in this invention, only

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one word of that text will appear at any point in time. The word is allowed to automatically pass through the display window at a display rate).

It would have been obvious to a person of ordinary skill in the art at the time the invention was made to have modified '968 into '448 to provide a way, wherein the sequence of words presented in the first display region is advanced at a controlled presentation rate. One of the ordinary skills in the art would have been motivated to perform such a modification to provide the enhancement of the readability of text have, in large measure of rapidly displayed text by a subject, and improved reading apprehension, and which is greater than the maximum aided reading capability of a subject, as taught by '968 at col. 2, lines 43-47 (i.e... the readability of rapidly displayed text by a subject, and with an improved reading apprehension...), and more over to provide the easier, faster, and less expensive tools, to perform variety of tasks, such as: the creation optical character recognition, corresponding electronic text file/word or character cannot be recognized, as taught by '448 at col. 1, lines 30-65 (i.e... Tools should be included that make the creation of a presentation easier, faster, and less expensive).

**In regard to dependent claim 16,** *"generating the thumbnail view to be larger than the first display region, the thumbnail view being located in a first display pane, and the first display region being located in a second display pane in front of the first display pane, the first display region overlapping the thumbnail view"* is taught in '968 col. 4, lines 30-50 (i.e. ... displayed at a size of two to ten times the normal character height of

the text when displayed on a standard computer monitor... the text is overlaid on a background ).

It would have been obvious to a person of ordinary skill in the art at the time the invention was made to have modified '968 into '448 to provide a way, wherein generating the thumbnail view to be larger than the first display region, the thumbnail view being located in a first display pane, and the first display region being located in a second display pane in front of the first display pane, the first display region overlapping the thumbnail view. One of the ordinary skills in the art would have been motivated to perform such a modification to provide the enhancement of the readability of text have, in large measure of rapidly displayed text by a subject, and improved reading apprehension, and which is greater than the maximum aided reading capability of a subject, as taught by '968 at col. 2, lines 43-47 (i.e... the readability of rapidly displayed text by a subject, and with an improved reading apprehension...), and more over to provide the easier, faster, and less expensive tools, to perform variety of tasks, such as: the creation optical character recognition, corresponding electronic text file/word or character cannot be recognized, as taught by '448 at col. 1, lines 30-65 (i.e... Tools should be included that make the creation of a presentation easier, faster, and less expensive).

**In regard to dependent claim 17,** *"position of the thumbnail view relative to the first display region, such that the relative position of the thumbnail view is indicative of the location in said section of text of the word currently displayed in the first display region"* is taught in '968 col. 4, lines 55-65 (i.e. ... displayed text by a subject, using the

rapid and sequential display of words in a window on a computer monitor, along with a secondary display of a portion of the body of the text which had been previously presented).

It would have been obvious to a person of ordinary skill in the art at the time the invention was made to have modified '968 into '448 to provide a way, wherein position of the thumbnail view relative to the first display region, such that the relative position of the thumbnail view is indicative of the location in said section of text of the word currently displayed in the first display region. One of the ordinary skills in the art would have been motivated to perform such a modification to provide the enhancement of the readability of text have, in large measure of rapidly displayed text by a subject, and improved reading apprehension, and which is greater than the maximum aided reading capability of a subject, as taught by '968 at col. 2, lines 43-47 (i.e... the readability of rapidly displayed text by a subject, and with an improved reading apprehension...), and more over to provide the easier, faster, and less expensive tools, to perform variety of tasks, such as: the creation optical character recognition, corresponding electronic text file/word or character cannot be recognized, as taught by '448 at col. 1, lines 30-65 (i.e... Tools should be included that make the creation of a presentation easier, faster, and less expensive).

**In regard to dependent claim 18,** *"moving the position of the thumbnail view relative to the first display region as the sequence of words presented in the first region is advanced"*, is taught in '968 col. 8, lines 43-52 (i.e. ... a vertical line located on the left-hand side, one character away from the left-hand edge. The user can operate either



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the mouse or a key on the keyboard and release within that space a bookmark at a place in the text...).

It would have been obvious to a person of ordinary skill in the art at the time the invention was made to have modified '968 into '448 to provide a way, wherein moving the position of the thumbnail view relative to the first display region as the sequence of words presented in the first region is advanced. One of the ordinary skills in the art would have been motivated to perform such a modification to provide the enhancement of the readability of text have, in large measure of rapidly displayed text by a subject, and improved reading apprehension, and which is greater than the maximum aided reading capability of a subject, as taught by '968 at col. 2, lines 43-47 (i.e... the readability of rapidly displayed text by a subject, and with an improved reading apprehension...), and more over to provide the easier, faster, and less expensive tools, to perform variety of tasks, such as: the creation optical character recognition, corresponding electronic text file/word or character cannot be recognized, as taught by '448 at col. 1, lines 30-65 (i.e... Tools should be included that make the creation of a presentation easier, faster, and less expensive).

**In regard to dependent claim 23,** *"The method generating marks in the thumbnail section of the text. According to claim 18. Further comprising view that approximate word patterns in the section of text "*, is taught in '968 col. 8, lines 40-60 (i.e. ... The text display window often referred to as "a secondary window" has a vertical line located on the left-hand side, one character away from the left-hand edge... allow the user to advance to any text to be yet displayed or any previously displayed text and

note a bookmark or the like... The user also has the option of increasing or decreasing the words per minute using the (+) and the (-) keys on the keyboard...).

It would have been obvious to a person of ordinary skill in the art at the time the invention was made to have modified '968 into '448 to provide a way, wherein moving the position of the thumbnail view relative to the first display region as the sequence of words, wherein approximate word patterns in the section of text. One of the ordinary skills in the art would have been motivated to perform such a modification to provide the enhancement of the readability of text have, in large measure of rapidly displayed text by a subject, and improved reading apprehension, and which is greater than the maximum aided reading capability of a subject, as taught by '968 at col. 2, lines 43-47 (i.e... the readability of rapidly displayed text by a subject, and with an improved reading apprehension...), and more over to provide the easier, faster, and less expensive tools, to perform variety of tasks, such as: the creation optical character recognition, corresponding electronic text file/word or character cannot be recognized, as taught by '448 at col. 1, lines 30-65 (i.e... Tools should be included that make the creation of a presentation easier, faster, and less expensive).

**In regard to dependent claim 24,** *"The method according to claim 18, further comprising generating a shadow on the thumbnail view to indicate a number of pages remain in a document after the page presented in the thumbnail view"*, is taught in '448 col. 9, lines 20-35 (i.e. ... The preview window 330 displays a photo-realistic image of an original document. That is, preview window 330 will display all, or part of, one, or more, images files 205. In this example, the preview window 330 is displaying an

enhanced image of an original document 199. In one embodiment, multiple image preview windows 330, each including an image, can be shown on the display device 121. In one embodiment, a preview window 330 can display multiple different images. When making a presentation, only the preview window 330 is displayed on the audience display devices 270, using a second display driver/video card or some other device to provide a secondary, or independent, display, which can be full screen. This is called the "on-air" mode...).

**In regard to claims 14-15, and 27-28 consecutively,** are directed to an apparatus for performing the method of claims 12-13, and 23-24 consecutively, and are similarly rejected under the same rationale.

**In regard to independent claim 1,** is directed to an apparatus for performing the method of claim 12, and is similarly rejected under the same rationale.

**In regard to dependent claim 2,** is directed to an apparatus for performing the method of claim 13, and is similarly rejected under the same rationale.

**In regard to dependent claim 3,** is directed to an apparatus for performing the method of claim 14, and is similarly rejected under the same rationale.

**In regard to independent claim 4,** is directed to an apparatus for performing the method of claim 12, and is similarly rejected under the same rationale.

**In regard to dependent claim 5,** is directed to an apparatus for performing the method of claim 13, and is similarly rejected under the same rationale.

**In regard to dependent claim 6,** "*wherein the indicator is a cursor*" is taught in '448 col. 4, lines 40-45 (i.e. ... user input device is a cursor control 123, such as a

mouse, a trackball, a pen, a touch screen, a touch pad, a digital tablet, or cursor direction keys, for communicating direction information to the processor 109, and for controlling the cursor's movement on the display device 121...).

**In regard to dependent claim 7**, is directed to an apparatus for performing the method of claim 17, and is similarly rejected under the same rationale.

**In regard to dependent claim 8**, is directed to an apparatus for performing the method of claim 16 and is similarly rejected under the same rationale.

**In regard to dependent claim 10**, is directed to an apparatus for performing the method of claims 17-18 and is similarly rejected under the same rationale.

**In regard to dependent claim 11**, is directed to apparatuses for performing the method of claim 17, and are similarly rejected under the same rationale.

**In regard to claims 21-22 consecutively**, are directed to an apparatus for performing the method of claims 23-24 consecutively, and are similarly rejected under the same rationale.

**In regard to claims 25-26 consecutively**, are directed to an apparatus for performing the method of claims 23-24 consecutively, and are similarly rejected under the same rationale.

### ***Response to Argument***

6. Applicant's arguments with respect to claims 1-8, 10-18, and 21-28 have been considered but are moot in view of the new ground(s) of rejection.

In view amendment, the reference of Reich et al. US005960448A - filed 12/15/1995 has been added for new ground of rejection.


**Conclusion**

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Quoc A. Tran whose telephone number is (571) 272-4103. The examiner can normally be reached on Monday through Friday from 8:30AM to 5:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Joseph H. Feild can be reached on (571) 272-4090. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for Published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

  
JOSEPH FEILD  
SUPERVISORY PATENT EXAMINER

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*Quoc A. Tran*

*Patent Examiner*

*Technology Center 2176*

*November 19, 2004*

  
JOSEPH FEILD  
SUPERVISORY PATENT EXAMINER